

Global IT Asset Management

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Qualys Unified IT-IoT-OT Visibility, Analytics and Control Solutions

Visibility

- Managed and unmanaged devices
- Observable and nonobservable meta-data
- Hardware, Software, **Applications and Traffic**

Analytics

- **Vulnerability Detection**
- **Policy Detection**
- Threat Quantification

Automated Control

- Remove unauthorized devices
- Policy based automation
- Inline and out-of-band
- Integration with Security and other Qualys tools

Agentless | Agent | Passive | API



Why Visibility?

Digital Transformation drives Endpoint Explosion

IoT/IIoT

Cloud and SaaS

Mobile Devices

Virtualization

BYOD

Digital Transformation



44% of compan

have 5k to 500k endpoints

10% of companies have 100k to 500k endpoints

Source: 2018 SANS Survey

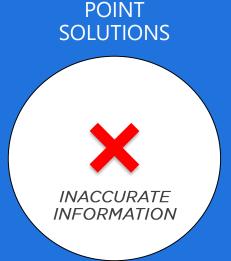


Challenges with IT Asset Management

VISIBILITY

ACROSS CAMPUS
/DC/BRANCH/

CLOUD





Agentless vs Agent-based

Agent-based

- Deep-device, software visibility, user info
- **Vulnerability Detection**
- **Policy Compliance**
- Threat Quantification
- Suitable for Managed Devices

Agentless

- **Device Fingerprinting**
- **Data Flows**
- **Application Visibility**
- **Vulnerability for** unmanaged, ICS
- Suitable for unmanaged devices

Both are critical and have a role to play

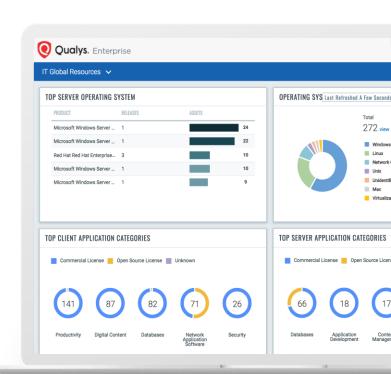
Introducing

Qualys Asset Inventory

Real-time Inventory

Source of truth for IT and Security teams

Structured and complete context



Benefits



2-second Visibility



Business contextual Inventory



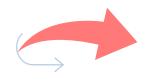
Uniform, accurate information



IT Cost reduction

How is it done?





Physical Scanner Virtual Scanner

Cloud Scanner

Cloud Agent

Passive Sensor

API

OS/HW/SW

EoL/EoS

Mfg./owner/product

Market version

License type

Vulnerability/PC

Qualys Sensors

Scalable, Self-updating & Centrally Managed

Asset Inventory in Qualys Cloud

Categorization, Normalization, Enrichment

Use case 1: Global IT Visibility

Managed, unmanaged, campus/branch/DC and cloud assets

Inventory every hardware and software

Real-time and contextual info

Manufacturer/Publisher/product/vendor

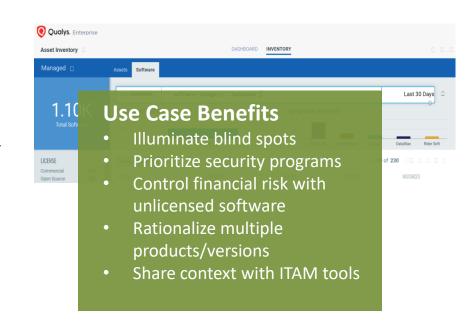
IP address/MAC address

Major version/version order/service

pack/market version

Risk/vulnerability

Policy compliance



Use case 2: Software Inventory with Rich Context

Databases, Applications and Security software agents

Real-time inventory of managed/unmanaged databases

EoL/EoS status of the software

Market version, multiple version for software

Report to drive VM programs

Use Case Benefits

- Control financial risk with unlicensed software
- Rationalize multiple products/versions
- Prioritize security programs

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Use case 3: Endpoint Devices Visibility

Managed and Unmanaged devices

Automatically discover devices as they enter the network

Get detailed context on

Devices already connected

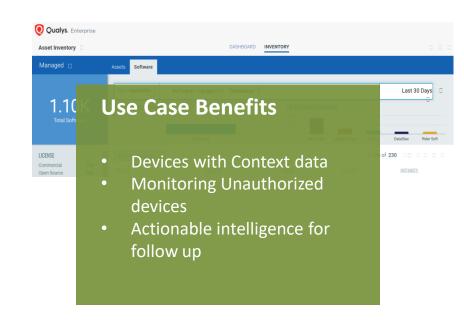
New devices connecting

Guest/Employee network monitoring

Real-time traffic monitoring

User information

Internet traffic monitoring*



Case Study: Large Bank uses Qualys AI to help Stay Compliant

Customer challenge:

Monitor unauthorized software Find DB versions, EoL/EoS status, market version discrepancies

How do they use it?

Dashboards to gain global visibility of unauthorized software

Asset category based search to isolate databases

Context information to find versions, EoL/EoS status, market version discrepancies



"We have regulatory compliance needs that require us to monitor unauthorized software, current versions of DB software, EoL/EoS software to ensure that we are in compliance"

Chief Information Officer

Case Study: Large Accounting Firm uses Qualys AI for Unified Inventory

Customer challenge:

Unified global inventory Prioritize security needs Service Desk optimization

How do they use it?

- o Dashboards to gain global visibility
- Asset category based prioritization to drive remediation
- CMDB integration with ServiceNow to drive accurate asset in CMDB

"Single unified inventory management for global assets across 4000 employees and distributed offices are required for us to drive optimizations in internal processes, including vulnerability prioritization, patching/remediation, service desk etc."

Security Manager

Case Study: Global Technology Leader uses Qualys AI to determine Unmanaged devices

Customer challenge:

Global asset inventory Unmanaged devices

How do they use it?

- Dashboards to gain global visibility of hardware and software
- Unmanaged devices total to identify all dashboards
- o Traffic information from these devices to understand threats and prioritize actions

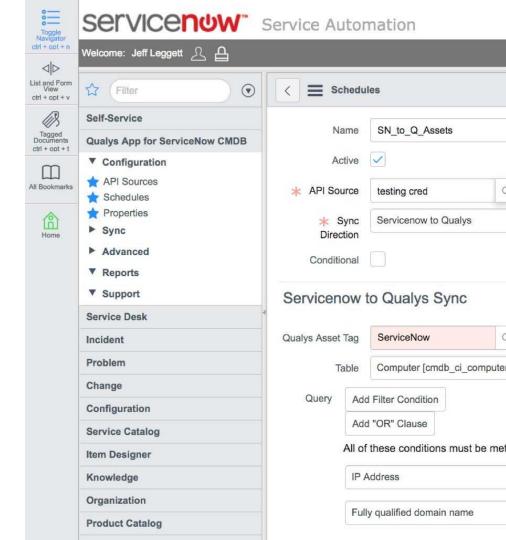


"We've not been able to understand our devices in its entirety. Qualys AI solution with complete context for devices are excellent way to understand devices, security threats and prioritize actions "

Security Manager

Complete and clean data to your CMDB

Certified ServiceNow App Syncs asset data in both directions.





Passive Network Sensor (Beta)



Discovery & Profiling

 Identify and profile devices as soon as they connect to the network

 Continuously enrich existing inventory

 Extends discovery, for sensitive systems



Multi-function Passive Sensor



First Phase (Q2/Q3-2019)

IT asset discovery and profiling Application recognition and usage

Next (Q4/Q1-2019/20)

Asset discovery and profiling

- SCADA
- Medical Devices

Future use cases

Highlight asset relationship
Traffic anomaly & Network IOC
Smart whitelisting (policies within
Secure Access Control)



Secure Access Control



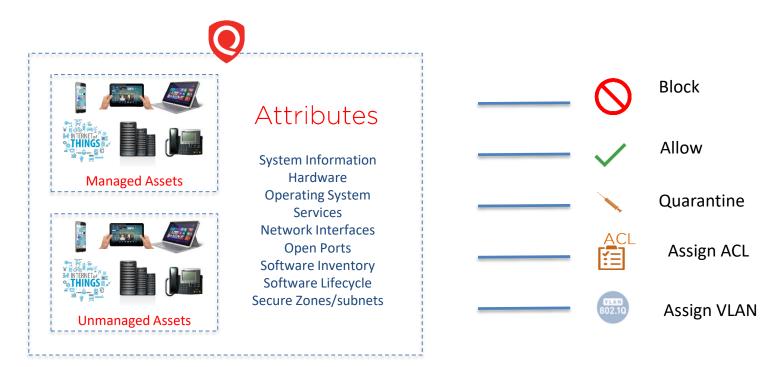
Grant access to resources only on a need basis

Automated asset attribute processing and enforcement

Limit /Block access (e.g. quarantine) of vulnerable assets or assets out of compliance

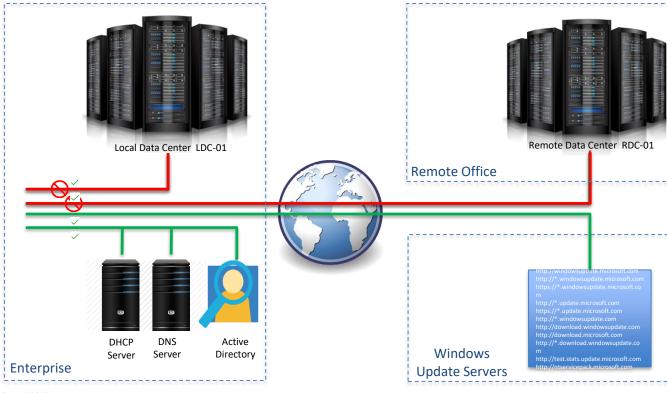


Asset Inventory - Access control using asset inventory attributes



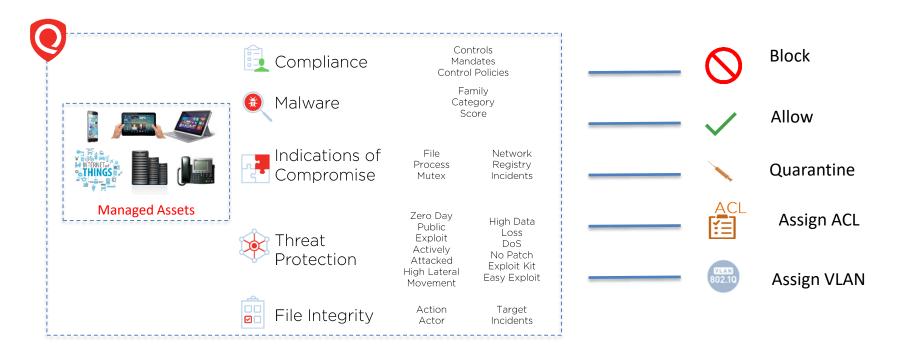
Vulnerabilities - Quarantine assets if vulnerable







Compliance - Block assets which fail compliance



Secure Access Control

Next Phase (1H'20)

- Public API
- PC and IoC as data source



- Policies using attributes of VM, Al, Asset Tags
- Enforcement Block, Assign VLAN/ACL
- In-line/Out-of-band hybrid operating modes
- Enforcement on SAC appliance or switches

Future use cases

Patch integration
Policy Simulation
Quarantine Notification pop-up
SEM Integration





